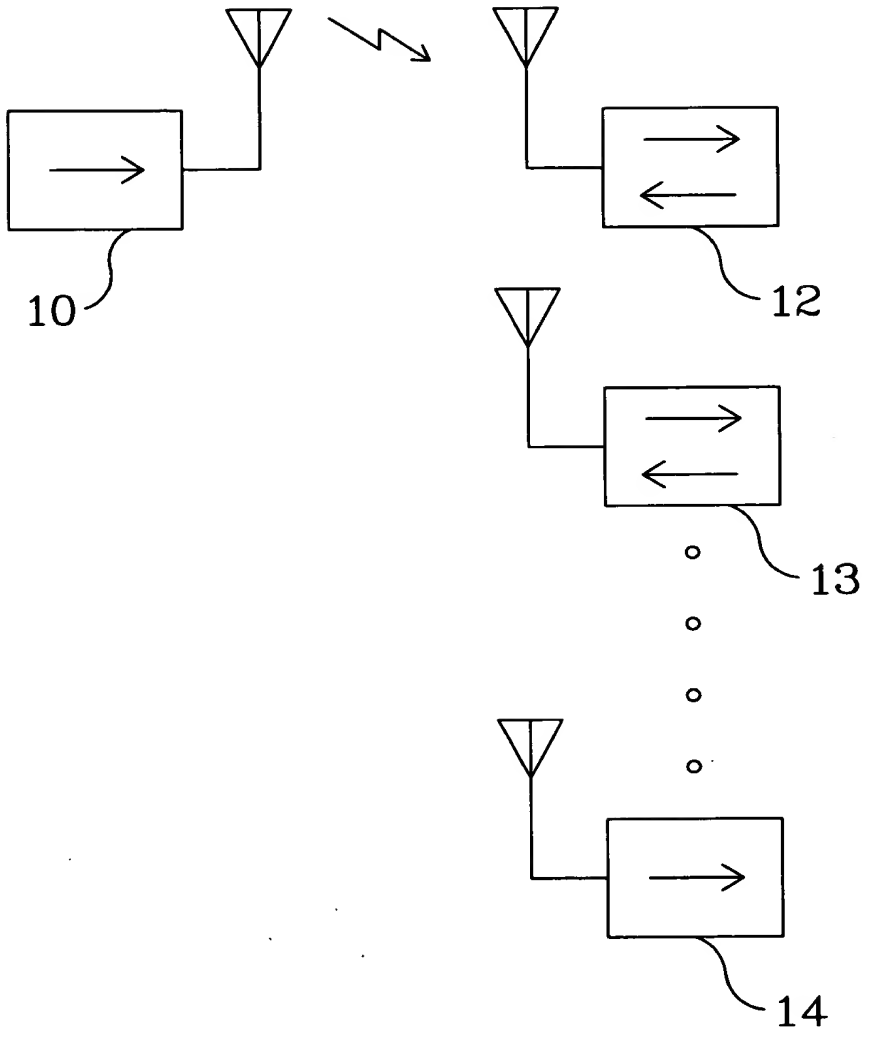

Fig. 1

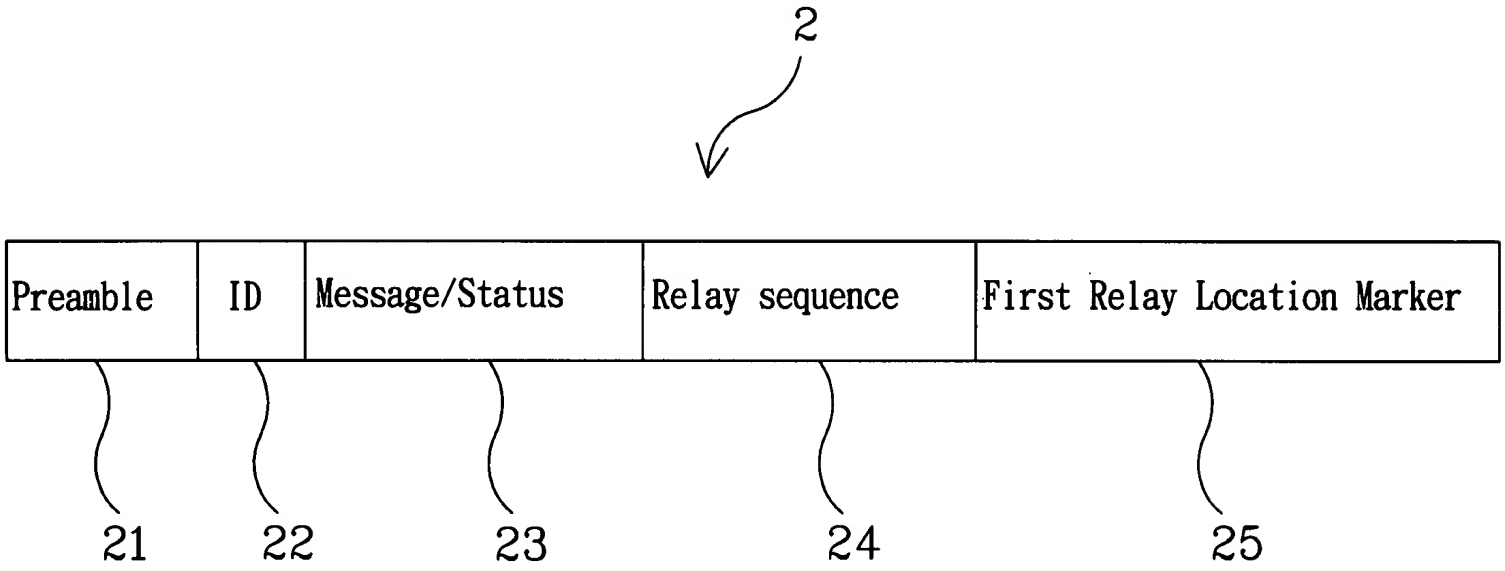
2
Preamble
ID
Message/Status
Relay sequence
First Relay Location Marker
21
22
23
24
25

Fig. 2

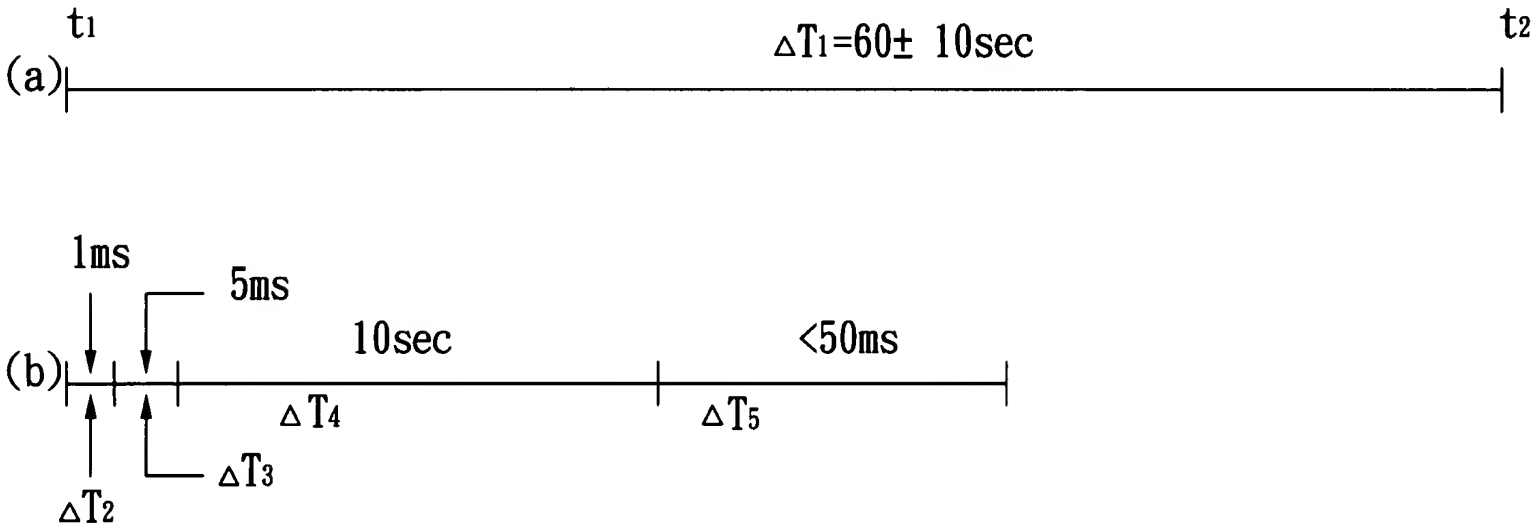

Fig. 3

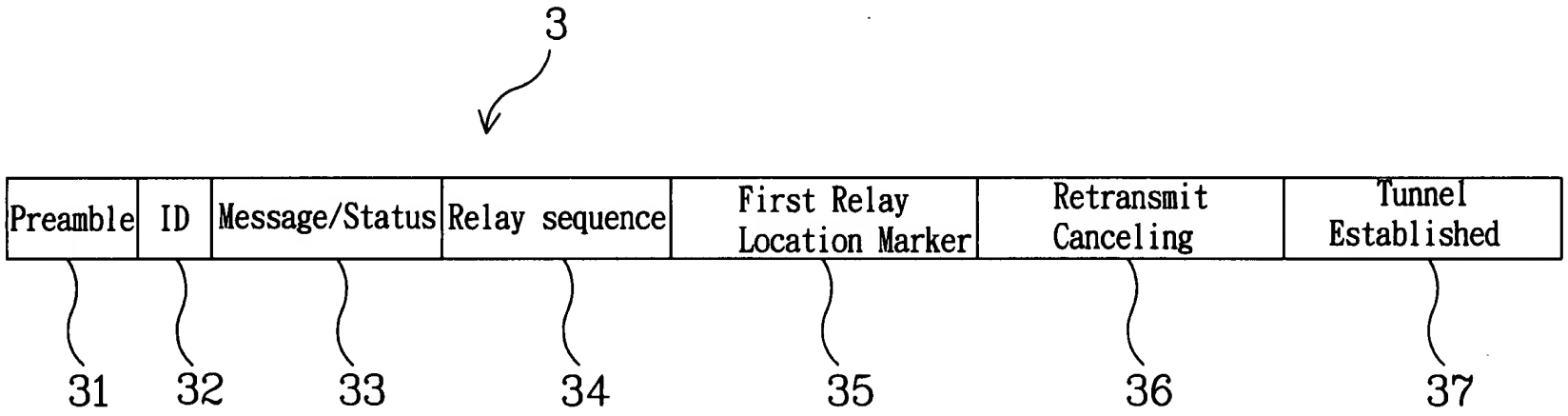
3
Preamble
ID
Message/Status
Relay sequence
First Relay Location Marker
Retransmit Canceling
Tunnel Established
31
32
33
34
35
36
37

Fig. 4

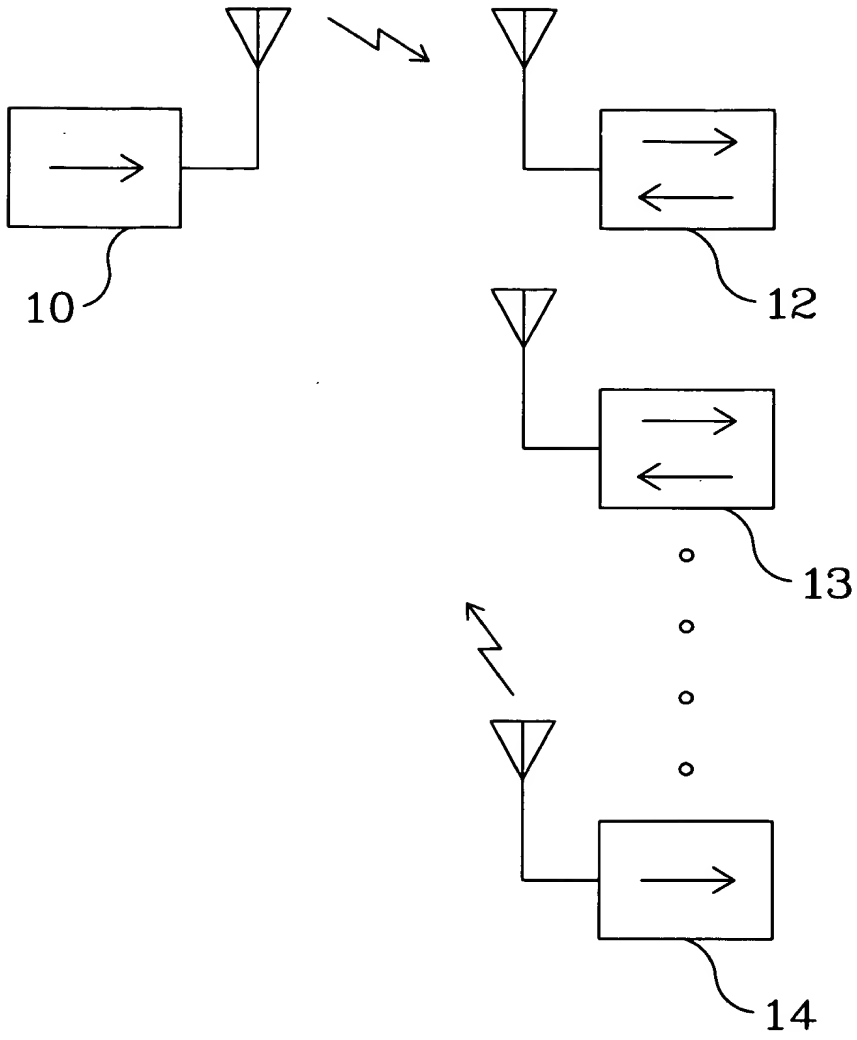

Fig. 5

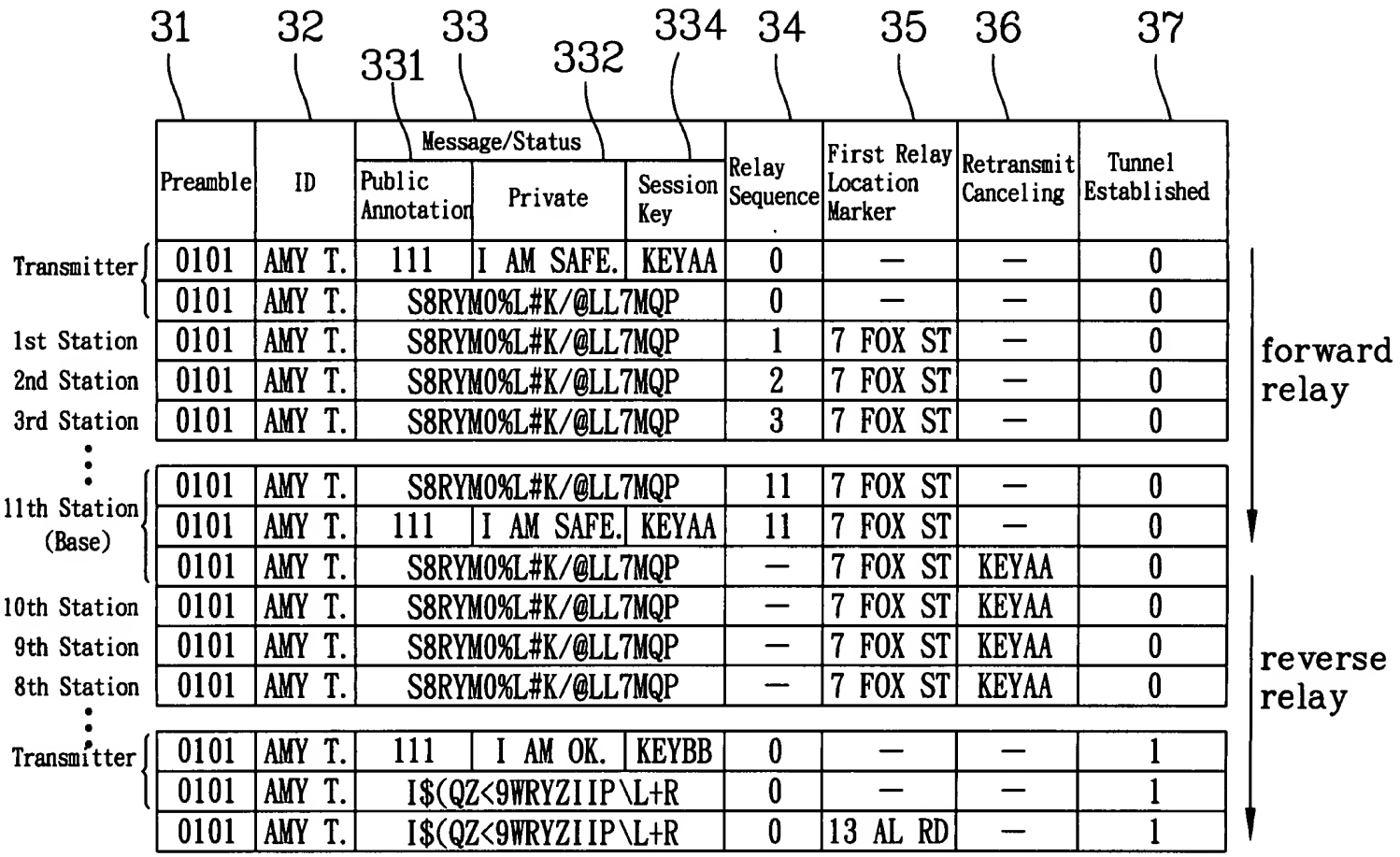
31
32
33
331
332
334
34
35
36
37
Message/Status
Preamble
ID
Public Annotation
Private
Session Key
Relay Sequence
First Relay Location Marker
Retransmit Canceling
Tunnel Established
Transmitter
1st Station
2nd Station
3rd Station
11th Station (Base)
10th Station
9th Station
8th Station
Transmitter
0101 AMY T. 111 I AM SAFE. KEYAA 0 — — 0
0101 AMY T. S8RYM0%L#K/@LL7MQP 0 — — 0
0101 AMY T. S8RYM0%L#K/@LL7MQP 1 7 FOX ST — 0
0101 AMY T. S8RYM0%L#K/@LL7MQP 2 7 FOX ST — 0
0101 AMY T. S8RYM0%L#K/@LL7MQP 3 7 FOX ST — 0
0101 AMY T. S8RYM0%L#K/@LL7MQP 11 7 FOX ST — 0
0101 AMY T. 111 I AM SAFE. KEYAA 11 7 FOX ST — 0
0101 AMY T. S8RYM0%L#K/@LL7MQP — 7 FOX ST KEYAA 0
0101 AMY T. S8RYM0%L#K/@LL7MQP — 7 FOX ST KEYAA 0
0101 AMY T. S8RYM0%L#K/@LL7MQP — 7 FOX ST KEYAA 0
0101 AMY T. S8RYM0%L#K/@LL7MQP — 7 FOX ST KEYAA 0
0101 AMY T. 111 I AM OK. KEYBB 0 — — 1
0101 AMY T. I$(QZ<9WRYZIIP\L+R 0 — — 1
0101 AMY T. I$(QZ<9WRYZIIP\L+R 0 13 AL RD — 1
forward relay
reverse relay

Fig. 6

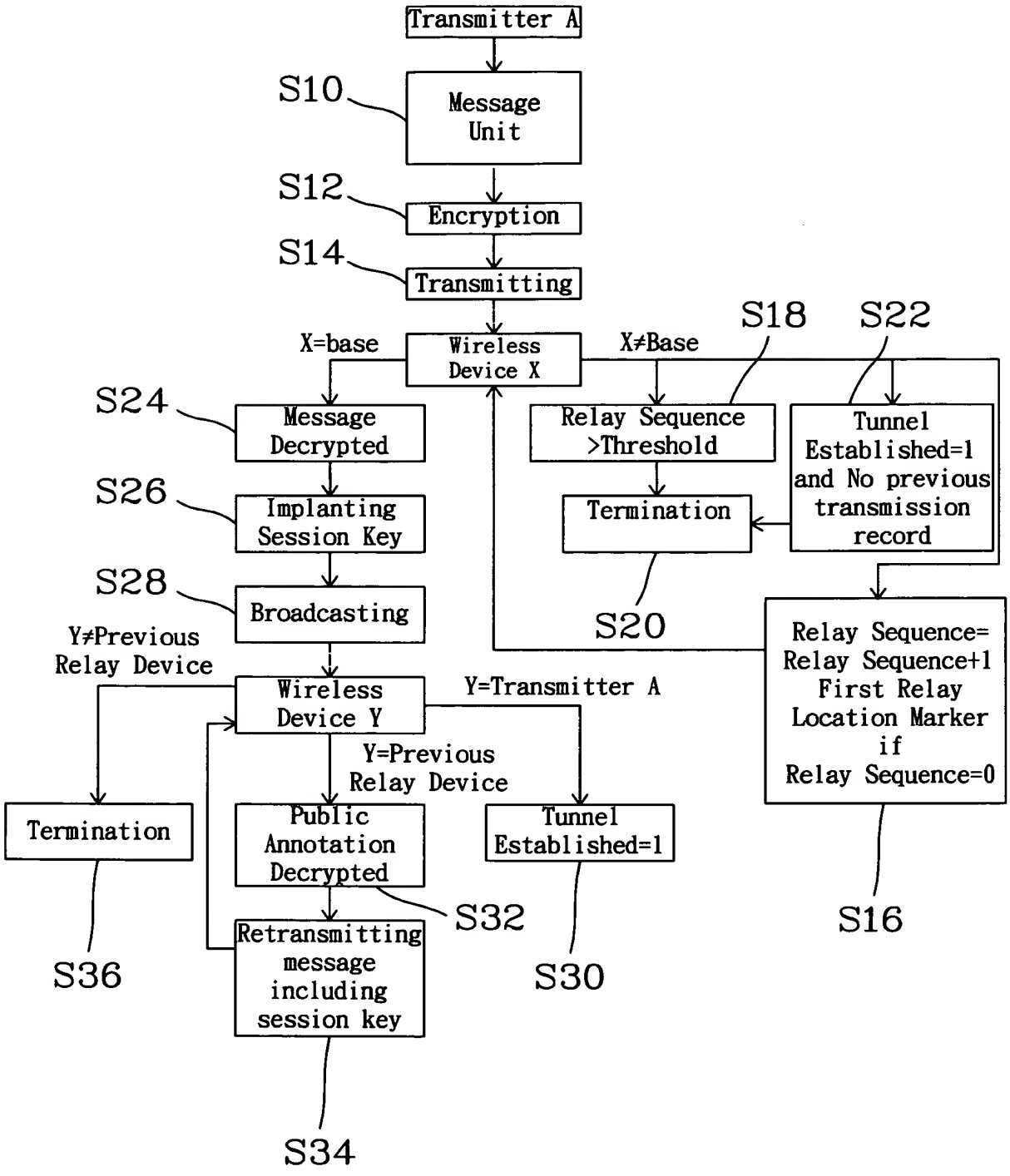
Transmitter A
S10
Message Unit
S12
Encryption
S14
Transmitting
Wireless Device X
X=base
X≠Base
S18
S22
S24
Message Decrypted
Relay Sequence >Threshold
Tunnel Established=1 and No previous transmission record
S26
Implanting Session Key
Termination
S28
Broadcasting
S20
Relay Sequence= Relay Sequence+1 First Relay Location Marker if Relay Sequence=0
Y≠Previous Relay Device
Wireless Device Y
Y=Transmitter A
Y=Previous Relay Device
Termination
Public Annotation Decrypted
Tunnel Established=1
S32
S16
S36
S30
Retransmitting message including session key
S34

Fig. 7

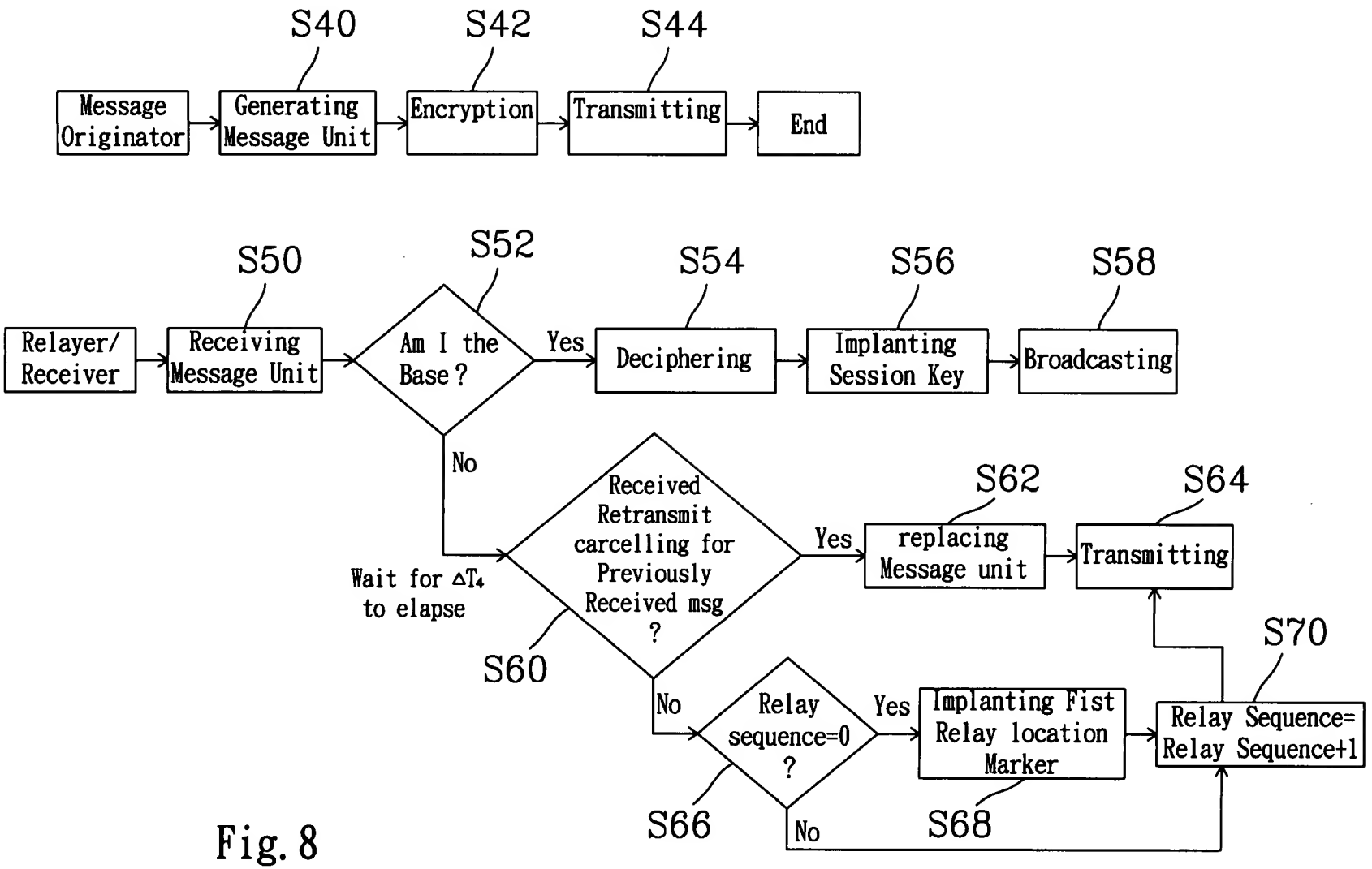
S40
S42
S44
Message Originator
Generating Message Unit
Encryption
Transmitting
End
S50
S52
S54
S56
S58
Relayer/ Receiver
Receiving Message Unit
Am I the Base?
Yes
Deciphering
Implanting Session Key
Broadcasting
No
Wait for ΔT4 to elapse
Received Retransmit carcelling for Previously Received msg ?
S60
S62
S64
Yes
replacing Message unit
Transmitting
S70
No
Relay sequence=0 ?
Yes
Implanting Fist Relay location Marker
Relay Sequence= Relay Sequence+1
S66
S68
No

Fig. 8